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**ABSTRACT**

A method and apparatus for electrically interfacing between two or more distinct environments. The method and apparatus are directed to an electrical feedthru with one or more electrical transmission lines coated with one or more thin dielectric layers of material to insulate the transmission lines from a feedthru body. The dielectric layers may include a diamond-like carbon coating, which electrically insulates, but also thermally conducts. The use of thin dielectric layers facilitates smaller, more efficient electrical feedthrus. Therefore, the electrical feedthru may be used, for example, with MEMS devices. The electrical feedthru is not limited to any particular geometry, it may be adapted to fit between any two environments.